

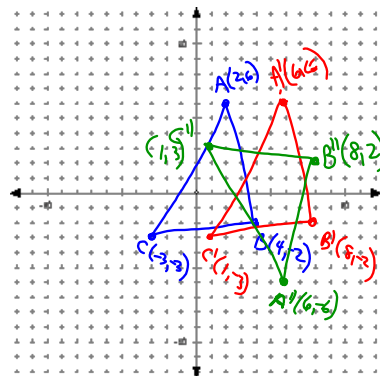
## 9.5 Apply Compositions of Transformations

Glide reflection--transformation that is a translation followed by a reflection

When two or more transformations are combined, then the result is a composition of transformations.

A(2, 6) B(4, -2) C(-3, -3)

Find the image of the triangle after the translation  $(x, y) \longrightarrow (x+4, y)$  and then the reflection in the x-axis.



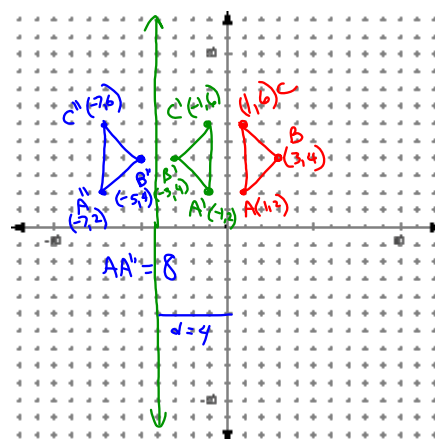
Reflections in parallel lines--same as a translation

gsp

distance b/w  $A + A''$   
is 2x the distance b/w  
the // lines

Reflections in intersecting lines--same as a rotation about the intersection where the angle of rotation is 2 times the acute or right angle of intersection

y-axis  
 $x=4$



Attachments

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1936-squirrels[1].jpe

9\_5reflections\_ex.gsp